## Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

## Listing of Claims:

1. (Currently Amended) A method of training a quality assessment tool comprising the steps of

dividing a database comprising a plurality of samples, each with an associated mean opinion score, into a plurality of distortion sets of samples according to a dominant distortion present in each sample; and

training a distortion specific assessment handler for each distortion set, such thatto generate a an optimized fit between a distortion specific quality measure generated from

a distortion specific plurality of parameters for a sample and the mean opinion score associated with said sample is optimised;

generating a quality prediction result based on said optimized fit; and storing the quality prediction result in a computer-readable medium.

2. (Currently Amended) A method according to claim 1, further comprising the steps of

training the quality assessment tool, such that a fit between a quality measure generated from

a non-distortion specific plurality of parameters together with a distortion specific quality measure for a sample, and

the mean opinion score associated with said sample, is optimised optimized.

3. (Previously Presented) A method according to claim 1 in which the samples represent speech transmitted over a telecommunications network, and in which the

quality measure is representative of the quality of the speech perceived by an average user.

4. (Currently Amended) A method of assessing speech quality of a sample in a telecommunications network comprising the steps of

identifying an identified <u>a first</u> dominant distortion type for the sample, the <u>identified first</u> dominant distortion type being selected from a plurality of possible distortion types;

selecting a selected-<u>first</u> distortion specific assessment handler in dependence upon said <u>identified-first</u> dominant distortion type from a plurality of distortion specific assessment handlers, each of said plurality of distortion specific assessment handlers being associated with a respective one of said plurality of possible distortion types;

using the <u>selected-first</u> distortion specific assessment handler to combine a plurality of parameters specific to said <u>identified-first</u> dominant distortion type to provide a distortion specific quality measure for the sample;-and

generating a quality measure in dependence upon the distortion specific quality measure; and

storing said quality measure in a computer-readable medium.

5. (Original) A method according to claim 4 in which the generating step comprises the sub step of

combining a non-distortion specific plurality of parameters with said distortion specific quality measure to provide said quality measure.

6. (Previously Presented) A method according to claim 4 in which the samples represent speech transmitted over a telecommunications network, and in which the quality measure is representative of the quality of the speech perceived by an average user.

7. (Currently Amended) A computer readable medium carrying a computer program
for implementing the a method according to claim 1 comprising:
dividing a database comprising a plurality of samples, each with an associated
mean opinion score, into a plurality of distortion sets of samples according to a
dominant distortion present in each sample; and
training a distortion specific assessment handler for each distortion set, such
that a fit between a distortion specific quality measure generated from
a distortion specific plurality of parameters for a sample and
the mean opinion score associated with said sample
<u>is optimised optimized.</u>
8. (Cancelled)
9. (Currently Amended) An apparatus for assessing speech quality of a sample in a
telecommunications network comprising
means for identifying an identified a first dominant distortion type for the
sample, the identified first dominant distortion type being selected from a plurality of
possible distortion types;
a plurality of distortion specific assessment handlers each of said plurality of
distortion specific assessment handlers being associated with a respective one of said
plurality of possible distortion types for combining a distortion specific plurality of
parameters to provide a distortion specific quality measure for the sample;
means for selecting a selected distortion specific assessment handler in
dependence upon said identified-first dominant distortion type from said plurality of

means for generating a quality measure in dependence upon the distortion

a computer-readable medium for storing said quality measure.

specific quality measure; and,

10. (Original) An apparatus according to claim 9, in which

the generating means comprises means for combining a non-distortion specific plurality of parameters with said distortion specific quality measure to provide said quality measure.

11. (Currently Amended) An apparatus for training a quality assessment tool comprising

means for dividing a database comprising a plurality of samples, each with an associated mean opinion score, into a plurality of distortion sets of samples according to a dominant distortion present in each sample; and

means for training a distortion specific assessment handler for each distortion set, such that ato provide an optimized fit between a distortion specific quality measure generated from

a distortion specific plurality of parameters for a sample and the mean opinion score associated with said sample: and is-optimised

a computer-readable medium for storing said optimized fit.

12. (Currently Amended) An apparatus according to claim 11, further comprising means for training the quality assessment tool, such that a fit between a quality measure generated from

a non-distortion specific plurality of parameters together with a distortion specific quality measure for a sample, and

the mean opinion score associated with said sample, is optimised optimized.

13. (Previously Presented) A method according to claim 2 in which the samples represent speech transmitted over a telecommunications network, and in which the quality measure is representative of the quality of the speech perceived by an average user.

- 14. (Previously Presented) A method according to claim 5 in which the samples represent speech transmitted over a telecommunications network, and in which the quality measure is representative of the quality of the speech perceived by an average user.
- 15. (Currently Amended) A computer readable medium <u>as recited in Claim 7</u>, wherein said carrying a computer program for implementing the method according to <u>claim 2</u> further comprises:

training the quality assessment tool, such that a fit between a quality measure generated from

a non-distortion specific plurality of parameters together with a distortion specific quality measure for a sample, and the mean opinion score associated with said sample is optimized.

- 16. (Currently Amended) A computer readable medium <u>as recited in Claim 7</u>, wherein said carrying a computer program for implementing the method according to elaim 3samples represent speech transmitted over a telecommunications network, and said quality measure is representative of the quality of the speech perceived by an average user.
- 17. (Currently Amended) A computer readable medium <u>as recited in Claim 7.</u>

  <u>wherein said carrying a computer program for implementing the method according to elaim 4 further comprises:</u>

identifying a first dominant distortion type for a sample, the first dominant distortion type being selected from a plurality of possible distortion types;

selecting a first distortion specific assessment handler in dependence upon said first dominant distortion type from a plurality of distortion specific assessment handlers, each of said plurality of distortion specific assessment handlers being associated with a respective one of said plurality of possible distortion types;

using the first distortion specific assessment handler to combine a plurality of
parameters specific to said first dominant distortion type to provide a distortion
specific quality measure for the sample; and
generating a quality measure in dependence upon the distortion specific quality

measure.

Claims 18 - 20: (Cancelled)